

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: Fri Jul 27 09:18:59 EDT 2007

=====

Application No: 10581472 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2007-07-18 14:41:16.416  
**Finished:** 2007-07-18 14:41:16.792  
**Elapsed:** 0 hr(s) 0 min(s) 0 sec(s) 376 ms  
**Total Warnings:** 2  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 3  
**Actual SeqID Count:** 3

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)

SEQUENCE LISTING

<110> Plant Biosceince Limited  
Cammue, Bruno PA  
De Bolle, Miguel FC  
Katleen, Butaye

<120> Enhanced Expression

<130> 065435-9071-US00

<140> 10581472  
<141> 2007-07-18

<150> US 10/581,472  
<151> 2006-06-01

<150> PCT/GB2004/005058  
<151> 2004-11-30

<150> GB 0327919.7  
<151> 2003-12-02

<160> 3

<170> PatentIn version 3.3

<210> 1  
<211> 2947  
<212> DNA  
<213> Gallus gallus

<400> 1  
aaaccaaatat atttccaaat gaaaaaaaaa tctgataaaaa agttgacttt aaaaaaggta 60  
tcaataaaatg tatgcatttc tcactagcct taaactctgc atgaagtgtt tgatgagcag 120  
atgaagacaa catcatttct agtttcagaa ataataacag catcaaaacc gcagctgtaa 180  
ctccactgag ctcacgttaa gtttgatgt gtgaatatct gacagaactg acataatgag 240  
cactgcaagg atatcagaca agtcaaaatg aagacagaca aaagtatttt ttaatataaa 300  
aatggtcttt atttcttcaa tacaaggtaa actactattg cagtttaaga ccaacacaaa 360  
agttggacag caaatggctt aacagtctcc taaaggctga aaaaaaggaa cccatgaaag 420  
ctaaaagtta tgcagtattt caagtataac atctaaaaat gatgaaacga tccctaaagg 480  
tagagattaa ctaagtactt ctgctgaaaa tgtattaaaa tccgcagttg ctaggatacc 540  
atcttacctt gttgagaaat acaggtctcc ggcaacgcaa cattcagcag actctttggc 600  
ctgctggaat cagggaaactg cttactatac acacatataa atcccttggc gttgggcatt 660  
ctgagagaca tccatttcct gacattttgc agtgcaactc tgcatcattcaa ctcagacaag 720

ctcccatgct gtattcaaa gccatttctt gaatagttt cccagacatc cttgtgcaaa 780  
ttggaaatga ggaaatgcaa tggcacagga agacaataca gccttatgtt tagaaagtca 840  
gcagcgctgg taatcttcat aaaaatgtaa ctgtttcca aataggaatg tatttcactt 900  
gtaaaacacc tggtccttt tatattactt tttttttt ttaaggacac ctgcactaat 960  
ttgcaatcac ttgtattt aaaaagcacac gcactcctca ttttcttaca tttgaagatc 1020  
agcagaatgt ctcttcata atgtataat catatgcaca gttaaaata ttttcttatta 1080  
caaaatacag tacacaagag ggtgaggcca aagtcttatta cttgaatata ttccaaagtg 1140  
tcagcactgg ggggtgtaaaa ttacattaca tggtatgaat aggcggaatt ctttacaac 1200  
tgaatgctc gatttcattt ggtcaaaagg taagtactgt ttactatctt caagagactt 1260  
caatcaagtc ggtgtatttcaaaagaagct taaaagattt aagcacagac acaggccaca 1320  
ccagagccta cacctgctgc aataagtggt gctatagaaa ggattcagga actaacaagt 1380  
gcataattt caaatagaga tgcttatca tactttgccc aacatggaa aaaagacatc 1440  
ccatgagaat atccaactga ggaacttctc tgtttcatag taactcatct actactgcta 1500  
agatggtttggaaatggcc accgaggtagatgttcgg gaggtggctg tggcagcg 1560  
tgtcccaaca cgacacaaag cacccaccc ctatctgcaa tgctcactgc aaggcagtgc 1620  
cgtaaacagc tgcaacaggc atcaattctg cataatgct gtgactcggtt agcatgctgc 1680  
aactgtgtttt aaaaactatg cactccgtt cccaaataat ttaagtccca aataaatcca 1740  
tgcagcttgc ttccatgcc aacatatttt agaaagtatt cattttctt taagaatatg 1800  
cacgtggatc tacacttcct gggatctgaa gcgatttata cctcagttgc agaaggatgt 1860  
tagtgcctg gatctggaa ggcagcagca aacgtgccc ttttacattt gaacccatgt 1920  
gacaacccgc cttactgagc atcgctctag gaaatttaag gctgtatcct tacaacacaa 1980  
gaaccaacga cagactgcat ataaaattct ataaataaaa ataggagtga agtctgtttg 2040  
acctgtacac acagagcata gagataaaaa aaaaaggaaa tcaggaatta cgtatttcta 2100  
taaatgccat atattttac tagaaacaca gatgacaatgt atatacaaca tgtaaatccg 2160  
aagttatcaa catgttaact agaaaaacat ttacaagcat ttgggtatgc aactagatca 2220  
tcaggtaaaa aatccatttta gaaaaatcta agcctcgcca gtttcaaagg aaaaaaacc 2280  
gagaacgctc actacttcaa agggaaaaaaa ataaagcatc aagctggct aaacttaata 2340  
aggtatctca tgtaacaaca gctatccaag cttcaagcc acactataaa taaaaacctc 2400  
aagttccgat caacgttttc cataatgcaa tcagaaccaa aggcattggc acagaaagca 2460

aaaaggaaat gaaagaaaag ggctgtacag tttccaaaag gttttcttt tgaagaaatg 2520  
tttctgacct gtcaaaacat acagtccagt agaaattta ctaagaaaaa agaacacctt 2580  
acttaaaaaa aaaaaacaac aaaaaaaaca ggcaaaaaaa cctctcctgt cactgagctg 2640  
ccaccaccca accaccacct gctgtggct ttgtctccca agacaaagga cacacagcct 2700  
tatccaatat tcaacattac ttataaaaac gctgatcaga agaaatacca agtatttct 2760  
cagagactgt tatatcctt catcgcaac aagagatgaa atacaacaga gtgaatata 2820  
aagaaggcgg caggagccac cgtggcacca tcaccggca gtgcagtgcc caactgccgt 2880  
tttctgagca cgcataggaa gccgtcagtc acatgtata aacccaaacc tggtacagtt 2940  
atattat 2947

<210> 2  
<211> 11169  
<212> DNA  
<213> Artificial  
  
<220>  
<223> A. thaliana plant vector comprising T-DNA region, pFAJ3160  
  
<400> 2  
agtactttga tccaaacctt ccgcgtctat agtgcagtcg gcttctgacg ttcaagtgcag 60  
ccgtcttctg aaaacgacat gtcgcacaag tcctaagtta cgcgcacaggc tgccgcctg 120  
ccctttctt ggcgtttct tgcgcgtgt tttagtcgca taaagttagaa tacttgcgac 180  
tagaaccgga gacattacgc catgaacaag agcgccgccc ctggcctgct gggctatgcc 240  
cgcgtcagca ccgacgacca ggacttgacc aaccaacggg ccgaactgca cgcggccggc 300  
tgcaccaagc tgtttccga gaagatcacc ggcaccaggc ggcaccgccc ggagctggcc 360  
aggatgcttgc accacctacg ccctggcgac gttgtgacag tgaccaggct agaccgcctg 420  
gccccgacca cccgcaccc actggacatt gccgagcgca tccaggaggc cggcgccggc 480  
ctgcgttagcc tggcagagcc gtggcccgac accaccacgc cggccggccc catggtgttg 540  
accgtgttgc ccggcattgc cgagttcgag cgttccctaa tcatcgaccg cacccggagc 600  
gggcgcgagg ccgccaaggc ccgaggcggt aagttggcc cccgcctac cctcaccccg 660  
gcacagatcg cgcacgccc cggactgatc gaccaggaaag gccgcaccgt gaaagaggcg 720  
gctgcactgc ttggcgtgca tcgctcgacc ctgtaccgac cacttgagcg cagcgaggaa 780  
gtgacgcccc ccgaggccag gcggcgccgt gccttcgtg aggacgcatt gaccgaggcc 840

gacgcccctgg cggccgcccga gaatgaacgc caagaggaac aagcatgaaa ccgcaccagg 900  
acggccagga cgaaccgttt ttcattaccc aagagatcga ggcggagatg atcgccggccg 960  
ggtaacgtgtt cgagccgccc ggcacgtct caaccgtgcg gctgcattaa atccctggccg 1020  
gtttgtctga tgccaaagctg gcggccctggc cggccagctt ggccgctgaa gaaaccgagc 1080  
gccgcccgtct aaaaaggtga tttgttatttg agtaaaacag cttgcgtcat gcggtcgctg 1140  
cgtatatgtat gcgatgagta aataaacaaa tacgcaaggg gaacgcattaa aggttacgc 1200  
tgtacttaac cagaaaggcg ggtcaggcaa gacgaccatc gcaacccatc tagcccgccg 1260  
cctgcaactc gccggggccg atgttctgtt agtcgattcc gatccccagg gcagtgcggc 1320  
cgattgggccc gccgtgcggg aagatcaacc gctaaccgtt gtcggcatcg accgccccac 1380  
gattgaccgc gacgtgaagg ccatcgcccg ggcgcacttc gtatgtatcg acggagcgcc 1440  
ccaggcggcgc gacttggctg tttccgcattt caaggcagcc gacttcgtgc tgattccgg 1500  
gcagccaagc cttacgaca tatggccac cgccgacctg gtggagctgg ttaagcagcg 1560  
cattgaggtc acggatggaa ggctacaagg ggcctttgtc gtgtcgccgg cgatcaaagg 1620  
cacgcgcattc ggccgtgagg ttggccgaggc gctggccggg tacgagctgc ccattcttga 1680  
gtcccgatcc acgcagcgcg tgagctaccc aggactgac gcccggca caaccgttct 1740  
tgaatcagaa cccgagggcg acgctgcccgg cgaggtccag ggcgcggccg ctgaaatcaa 1800  
atcaaaaactc attttagttt atgaggtaaa gagaaaatga gcaaaagcac aaacacgcta 1860  
agtgcggccg gtccgagcgc acgcagcgcg aaggctgca cgatggccag cctggcagac 1920  
acgcgcggca tgaagcgggt caacttttagt ttggccggccg aggtacacac caagctgaag 1980  
atgtacgcgg tacgccaagg caagaccatt accgagctgc tatctgaata catcgccag 2040  
ctaccagagt aaatgagcaa atgaataat gagtagatga atttttagccg ctaaaggagg 2100  
cgccatggaa aatcaagaac aaccaggcac cgacgcccgtg gaaatggccca ttgtgtggagg 2160  
aacggggcggt tggccaggcg taagcggctg gtttgcgtgc cggccctgca atggcactgg 2220  
aaccccaag cccgaggaat cggcgtgacg gtcgcaaaacc atccggcccg gtacaaatcg 2280  
gcgcggcgct gggtgatgac ctggtgagaa agttgaaggc cgccgcaggcc gcccagcgcc 2340  
aacgcattca ggcagaagca cgccccggtg aatcggtggca agcggccgct gatcgatcc 2400  
gcaaaagaatc cggcaaccg cggcagccg gtgcgcgtc gatttaggaag ccgcggcaagg 2460  
gcgcacgagca accagatttt ttgcgttccga tgctctatga cgtggccacc cgcgatagtc 2520  
gcagcatcat ggacgtggcc gtttccgtc tgtcgaaagcg tgaccgacga gctggcgagg 2580

tgatccgcta cgagcttcca gacgggcacg tagaggttcc cgcaaggccg gccggcatgg 2640  
ccagtgtgtg ggattacgac ctggtaactga tggcggttcc ccatctaacc gaatccatga 2700  
accgataccg ggaagggaaag ggagacaagg ccggccgcgt gttccgtcca cacgttgcgg 2760  
acgtactcaa gttctgcccgg cgagccgatg gcgaaagca gaaagacgac ctggtagaaa 2820  
cctgcattcg gttaaacacc acgcacgttg ccatgcagcg tacgaagaag gccaaagaacg 2880  
gcccctggt gacggatcc gagggtaaag cttgatttag ccgtacaag atcgtaaaga 2940  
gcgaaaccgg gcggccggag tacatcgaga tcgagctagc tgattggatg taccgcgaga 3000  
tcacagaagg caagaaccgg gacgtgctga cggttacccc cgattactt ttgatcgatc 3060  
ccggcatcg ccgtttctc taccgcctgg cacgcccgcg cgcaggcaag gcagaagcca 3120  
gatggttgtt caagacgatc tacgaacgca gtggcagcgc cggagatgc aagaagttct 3180  
gttccacgt ggcgaagctg atcggttcaa atgacctgcc ggagtacgt ttgaaggagg 3240  
aggcgccccca ggctggcccg atcctagtca tgcgtaccg caacctgatc gagggcgaag 3300  
catccgccccg ttccataatgt acggagcaga tgctagggca aattgcctta gcaggggaaa 3360  
aaggtcgaaa aggtctcttt cctgtggata gcacgtacat tggaaaccca aagccgtaca 3420  
ttgggaaccg gaaccgtac attgggaacc caaagccgta cattgggaac cggcacacaca 3480  
tgcgtac tgcgtataaaa gagaaaaaaaag ggcgttttc cgctaaaac tctttaaaac 3540  
ttattaaaac tcttaaaacc cgctggccct gtgcataact gtctggccag cgcacagccg 3600  
aagagctgca aaaagcgccct acccttcggt cgctgcgcgc cctacgcccc gccgcttcgc 3660  
gtcgccctat cgccggccgt ggccgctcaa aaatggctgg cctacggcca ggcaatctac 3720  
cagggcgccgg acaagccgcg cctgcgcac tgcaccgcgg gcccacat caaggcaccc 3780  
tgcctcgccg gttcggtga tgcgttgaa aacctctgac acatgcagct cccggagacg 3840  
gtcacagctt gtctgttaagc ggatgcccgg agcagacaag cccgtcaggg cgcgtcagcg 3900  
ggtgtggcg ggtgtcgcccc cgcagccatg acccagtacat gtgcgtatcg cggagtgtat 3960  
actggcttaa ctatgcggca tcagagcaga ttgtactgag agtgcaccat atgcgggttg 4020  
aaataccgca cagatgcgtaa aggagaaaaat accgcatacg gcgtcttcc gttctctcg 4080  
tcactgactc gctgcgcctcg gtcgttcggc tgcggccgc ggtatcagct cactcaaagg 4140  
cggttaatacg gttatccaca gaatcaggaaat aacgcagg aaagaacatg tgagcaaaag 4200  
gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgttttc cataggctcc 4260

gccccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga aacccgacag 4320  
gactataaag ataccaggcg tttccccctg gaagctccct cgtgcgctct cctgttccga 4380  
ccctggcgct taccggatac ctgtccgcct ttctcccttc gggaaagcgtg gcgctttctc 4440  
atagctcacf ctgttaggtat ctcaagttcggt tgtaggtcgt tcgctccaag ctgggctgtg 4500  
tgcacgaacc ccccggttcag cccgaccgct ggcgccttatac cggttaactat cgtcttgcgt 4560  
ccaacccgggt aagacacgac ttatcgccac tggcagcagc cactggtaac aggattagca 4620  
gagcgaggtt tgtagggcggt gctacagagt tcttgaagtg gtggcctaac tacggctaca 4680  
ctagaaggac agtatttgggt atctgcgctc tgctgaagcc agttacccctc ggaaaaaagag 4740  
ttggtagctc ttgatccggc aaacaaacca ccgctggtagt cgggggtttt tttgtttgca 4800  
agcagcagat tacgcccaga aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg 4860  
ggtctgacgc tcagtgaaac gaaaactcac gttaaggat tttggtcatg catgatatat 4920  
ctcccaattt gtgttagggct tattatgcac gctaaaaat aataaaagca gacttgacct 4980  
gatagtttgg ctgtgagcaa ttatgtgctt agtgcatactt atcgcttgcgt ttaacgcccgg 5040  
cgaaggccggc tcggcttcaa cgaatttcta gctagacatt atttgcac taccttggtg 5100  
atctcgccct tcacgttagt gacaaattct tccaaactgat ctgcgcgcga ggccaagcga 5160  
tcttcttctt gtccaaagata agcctgtcta gcttcaagta tgacgggctg atactgggcc 5220  
ggcaggcgct ccattgcccc gtcggcagcg acatccctcg gcgcgatttt gccggttact 5280  
gcgctgtacc aaatgcggga caacgtaagc actacatttc gctcatcgcc agcccagtcg 5340  
ggcggcgagt tccatagcgt taaggtttca tttagcgcct caaatagatc ctgttcagga 5400  
accggatcaa agagttccctc cggccgttggaa cctaccaagg caacgctatg ttctttgtc 5460  
tttgcagca agatagccag atcaatgtcg atcgtggctg gctcgaagat acctgcaaga 5520  
atgtcattgc gctgccattc tccaaattgc agttcgcgct tagctggata acgccacgg 5580  
atgatgtcgt cgtgcacaac aatggtgact tctacagcgc ggagaatctc gctctctcca 5640  
ggggaaagccg aagttccaa aaggctgttg atcaaagctc gccgcgttgtt ttcatcaagc 5700  
cttacggtca cggtaaccag caaatcaata tcactgtgtg gcttcaggcc gccatccact 5760  
gcggagccgt acaaatgtac ggccagcaac gtcgggtcga gatggcgctc gatgacgcca 5820  
actacctctg atagttgagt cgataacttcg gcgatcaccg cttccccat gatgtttaac 5880  
tttgttttag ggcgactgcc ctgctgcgtt acatcggtc tgctccataa catcaaacat 5940  
cgacccacgg cgtaacgcgc ttgctgttg gatgcccag gcatagactg taccggaaaa 6000

aaacatgtca taacaagaag ccatgaaaac cgccactgctcgccgttaccac cgctgcgttc 6060  
ggtcaagggtt ctggaccagt tgcgtgacgg cagttacgct acttgcatta cagttacga 6120  
accgaacgag gcttatgtcc actgggttcg tgcccgaaatt gatcacaggc agcaacgctc 6180  
tgtcatcggtt acaatcaaca tgctaccctc cgcgagatca tccgtgtttc aaaccggca 6240  
gcttagttgc cgttttccg aatagcatcg gtaacatgag caaagtctgc cgcccttacaa 6300  
cggtctccc gctgacgccc tccggactg atgggctgcc tgtatcgagt ggtgatttg 6360  
tgccgagctg ccggcgcccc agctgttggc tggctggtgg caggatataat tgggtgtaa 6420  
acaatttgcac gcttagacaa cttataaca cattgcggac gttttatgt tactgaatta 6480  
acggccgaatt gaattcaggc ctgtcgacgc ccggggcgta ccgcgatcgc tcgcgacctg 6540  
caggcataaaa gccgtcagtg tccgcataaaa gaaccacccca taatacccat aatagctgtt 6600  
tgccatcgct accttaggac cgttatagtt aaccggtgaa ttcccgatct agtaacatag 6660  
atgacaccgc gcgcgataat ttatcctagt ttgcgcgcta tattttgttt tctatcgct 6720  
attaaatgtt taattgcggg actctaataca taaaaacccca tctcataaat aacgtcatgc 6780  
attacatgtt aattattaca tgcttaacgt aattcaacag aaatttatgt ataatcatcg 6840  
caagaccggc aacaggattc aatcttaaga aactttattg ccaaatgttt gaacgatcg 6900  
ccggccgagc tcggtagcaa ttcccgaggc tgcgtccgac gatggtgcca ccaggaggt 6960  
tggattca ttgttgccct ccctgctgctcg gttttcacc gaagttcatg ccagtccagc 7020  
gttttgcag cagaaaagcc gccgacttcg gtttgcggc gcgagtgaag atcccttct 7080  
tggattccgc aacgcgcaat atgccttgcg aggtcgcaaa atcggcgaaa ttccataacct 7140  
gttcacccgac gacggcgctg acgcgatcaa agacgcggtg atacatatcc agccatgcac 7200  
actgataactc ttcaactccac atgtcggtgt acattgagtg cagccggct aacgtatcca 7260  
cgccgtattc ggtgatgata atcggtctgat gcagttctc ctgccaggcc agaagttctt 7320  
tttccagttac cttctctgcc gtttccaaat cgccgccttg gacataccat ccgtataaac 7380  
ggttcaggca cagcacatca aagagatcg tgcgttgcg ggtgtgagcg tcgcagaaca 7440  
ttacattgac gcaggtgatc ggacgcgtcg ggtcgagttt acgcgttgc tccggcagtg 7500  
gcgcgaaata ttcccggtca cttgcggac gggatccgg ttcgttggca atactccaca 7560  
tcaccacgct tgggtggttt ttgtcacgctc ctatcagctc tttatcgcc tgtaagtgcg 7620  
cttgctgagt ttcccggttg actgcctt cgcgtacag ttcttcggc ttgttgcccc 7680

cttcgaaacc aatgcctaaa gagaggttaa agccgacagc agcagttca tcaatcacca 7740  
cgatgccatg ttcatctgcc cagtcgagca tctcttcagc gtaaggtaa tgcgaggta 7800  
ggtaggagtt ggcccaatc cagtccatta atgcgtggc gtgcaccatc agcacgttat 7860  
cgaatcctt gccacgcaag tccgcacatc catgacgacc aaagccagta aagtagaacg 7920  
gttgtggtt aatcaggaac tttcgccct tcactgccac tgaccggatg ccgacgcgaa 7980  
gcgggttagat atcacactt gtctggctt tggctgtgac gcacagttca tagagataac 8040  
cttcacccgg ttgccagagg tgccgattca ccacttgcaa agtcccgtta gtgccttgc 8100  
cagttgcaac cacctgttga tccgcacatc gcagttcaac gctgacatca ccattggcca 8160  
ccacctgcca gtcaacagac gcgtggttac agtcttgcgc gacatgcgtc accacggta 8220  
tatcgccac ccaggtgttc ggcgtggtgt agagcattac gctgcgtatgg attccggcat 8280  
agttaaagaa atcatggaag taagactgct tttcttgcc gtttcgtcg gtaatcacca 8340  
ttcccgccgg gatagtctgc cagttcgtt cgttgcac acaaacggtg atacgtacac 8400  
tttcccggc aataacatac ggcgtgacat cggcttcaaa tggcgtatag ccgcctgtat 8460  
gctccatcac ttccctgatta ttgacccaca ctttgccgtt atgagtgacc gcatcgaaac 8520  
gcagcacgat acgctggcct gccaacacct tcggtataaa gacttcgcgc tgataccaga 8580  
cgttgcccgc ataattacga atatctgcat cggcgaactg atcgttaaaa ctgcctggca 8640  
cagcaattgc ccggcttct tgaacgcgc tttccacca acgctgatca attccacagt 8700  
tttcgcgatc cagactgaat gcccacaggc cgtcgagttt tttgattca cgggttgggg 8760  
tttctacagg acgtaacata agggactgac ctacccgggg atcctctaga gccatgggt 8820  
ttaaacgtta actgttaattt taaatagtaa ttgtatgtt gttgttgg tttgttgg 8880  
ggttaattgtt gtaaaaatac tcgaggcct ctccaaatga aatgaacttc cttatataga 8940  
ggaagggtct tgcgaaggat agtgggattt tgcgtcatcc cttacgtcag tggagatatc 9000  
acatcaatcc acttgcttgc aagacgtggt tggaacgtct tctttttcc acgatgtcc 9060  
tcgtgggtgg gggccatct ttgggaccac tgcggcaga ggcatttca acgatggcct 9120  
ttcctttatc gcaatgatgg cattttaggg agccacccctc ctttccact atcttcacaa 9180  
taaagtgaca gatacggtttt caatggaaatc cgaggaggtt tccggatatt accctttgtt 9240  
gaaaagtctc aattggccctt tggcttctg agactgtatc tttgatattt ttggagtaga 9300  
caagtgtgtc gtgctccacc atgttatcac atcaatccac ttgctttgaa gacgtgggtt 9360  
gaacgtcttc tttttccac gatgctccctc gtgggtgggg gtccatctt gggaccactg 9420

tcggcagagg catcttcaac gatggcctt ccttatcg aatgatggca tttgttaggag 9480  
ccacccctt cttccactat cttcacaata aagtgacaga tagctggca atggaatccg 9540  
aggaggttcc cgatattac ctttgttga aaagtctcaa ttgccttgcgttctgag 9600  
actgtatctt tgatattttt ggagtagaca agtgtgtcg gctccaccat gttcaagctt 9660  
gcggccgctc gctaccttag gaccgttata gttaaattacc ctgttatccc tattaattaa 9720  
gagctcgcta ccttaagaga ggatatcgcc ggcggaaatt cgccgtctat catagatgtc 9780  
gctataaacc tattcagcac aatataattgt tttcattttta atattgtaca tataaagtatg 9840  
agggtacaat cagtaaattt aacggagaat attattcata aaaatacgat agtaacgggt 9900  
gatataattca tttagaatgaa ccgaaaccgg cggttaaggat ctgagctaca catgctcagg 9960  
tttttacaa cgtgcacaac agaattgaaa gcaaataatca tgcgatcata ggcgtctcg 10020  
atatctcatt aaagcagctg gaagatttga tggatcctca tcagatctcg gtgacgggca 10080  
ggaccggacg gggcggtacc ggcaggctga agtccagctg ccagaaaccc acgtcatgcc 10140  
agttcccgtg cttgaagccg gccgccccca gcatgcccg gggggcatat ccgagcgcct 10200  
cgtgcattgcg cacgctcggtt tcgttggca gcccgtatgac agcgaccacg ctcttgc 10260  
cctgtgcctc cagggacttc agcaggtggg ttttagagcgt ggagcccaat cccgtccgct 10320  
ggtggcgccccggg ggagacgtac acggctcgact cggccgttca gtcgtaggcg ttgcgtgcct 10380  
tccagggggcc cgcgtaggcg atgccccggca cctcgccgtc cacctcgccg acgagccagg 10440  
gatagcgctc ccgcagacgg acgaggctgtt ccgtccactc ctgcgggttcc tgcggctcg 10500  
tacggaaagg tttttttttt gaccgtgtttt gtctcgatgtt agtggttgac gatgggtgcag accggccggca 10560  
tgtccgcctc ggtggca